

Internet Programming				
CLASS S.E. (INFORMATION TECHNOLOGY)				
SEMESTER IV				
HOURS PER WEEK	LECTURES	:	02	
	TUTORIALS	:	--	
	PRACTICALS	:	04	
			HOURS	MARKS
EVALUATION SYSTEM:	THEORY		3	100
	PRACTICAL		3	25
	ORAL		-	25
	TERM WORK		-	25

Objectives of the course: This course gives knowledge to create the web sites by using HTML, JAVA SCRIPT, CGI/PERL, JAVA SERVLETS, ASP, and JSP. This will be first step towards Web Technology and E-Commerce.

1. INTRODUCTION TO WEB: History, web system architecture, URL, Domain Name System, overview of HTTP, HTTP request-response, generation of dynamic web pages, cookies.

2. MARKUP LANGUAGE: HTML: Introduction, Basic HTML, Formatting and Fonts, Commenting Code, Anchors, Backgrounds, images, Hyperlinks, Lists, Tables, Frames, simple HTML Forms, XHTML.

3. CASCADING STYLE SHEET (CSS): The need for CSS, Introduction to CSS, Basic syntax and structure, using CSS, manipulating text, padding, lists, Positioning using CSS.

4. JAVASCRIPT AND DHTML: What is JavaScript?, How to develop JavaScript simple JavaScript, variables, functions, conditions, JavaScript and Objects, JavaScript's own Objects, the DOM and the Web browser Environment, forms and validation.

5. SERVER SIDE PROGRAMMING I: Introduction to Servlets in Java,

Active Server Pages (ASP): Objects; Queries & Forms; Java Server Pages (JSP)

6. SERVER SIDE PROGRAMMING II: SESSION TRACKING: Introduction, Traditional session tracking techniques, the servlet /ASP session tracking API.

7. SERVER SIDE PROGRAMMING III: DATABASE CONNECTIVITY: Introduction, Relational database systems, JDBC perspectives, JDBC program example.

8. INTRODUCTION TO WEB EXTENSION: XML, Introducing XSL, XML transformed, XSL elements, transforming with XSLT, XML with CSS, web feeds (RSS), Introduction to web services.

Text Book:

1. Ralph Moseley, Middlesex University, Developing Web Applications, Wiley publications.
2. Henry Chan, Raymond Lee, Tharam Dillon, E-Commerce Fundamentals and Applications, Wiley publications.
3. Craig D. Knuckles, David S. Yuen, Web Applications, Wiley publications.

REFERENCES:

1. Steven Holzner, "HTML Black Book" Dreamtech press.
2. Tom Negrino and Dori smith, "JAVA script for World Wide Web".

Term Work:

Term work shall consist of at least 10 experiments and one written test.

Distribution of marks for term work shall be as follows:

	Marks
1. Attendance (Theory and Practical)	05 Marks
2. Laboratory work (Experiments and Journal)	10 Marks
3. Test (at least one)	10 Marks

The final certification and acceptance of TW ensures the satisfactory performance of laboratory Work and Minimum Passing in the term work.

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